INTERNATIONAL SEARCH REPORT

intern al Application No PCT/182004/052330

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02M3/335

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
Α	US 5 765 113 A (LOCKHART THOMAS WAYNE ET AL) 9 June 1998 (1998-06-09) abstract column 2, line 64 - column 3, line 9 column 6, lines 35-61	1
A	GB 2 308 950 A (MATSUSHITA COMMUNICATION IND U) 9 July 1997 (1997-07-09) abstract page 2, lines 3-11	1
A	EP 0 654 911 A (NOKIA MOBILE PHONES LTD) 24 May 1995 (1995-05-24) page 2, line 56 - page 3, line 16 figures 2,3	1

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 30 December 2004	Date of mailing of the International search report 13/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax. (+31-70) 340-3016	Authorized officer Roider, A

INTERNATIONAL SEARCH REPORT

Inter al Application No PC 2004/052330

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	WO 02/19551 A (CIRRUS LOGIC INC) 7 March 2002 (2002-03-07) cited in the application abstract	1
:		·
	•	

INTERNATIONAL SEARCH REPORT

Intern 11 Application No
PCT/1D2004/052330

Patent document Publication cited in search report date			Patent family member(s)			Publication date
US 5765113	Α	09-06-1998	NONE			
GB 2308950	Α	09-07-1997	WO	9725789	A1	17-07-1997
EP 0654911	A	24-05-1995	FI	94685	В	30-06-1995
		_	DE	69432509	D1	22-05-2003
			DE	69432509	T2	26-02-2004
			EP	0654911	A2	24-05-1995
			JP	3442881	B2	02-09-2003
			JP	7202795	Α	04-08-1995
			US	5519711	A	21-05-1996
WO 0219551	A	07-03-2002	AU	8549101	A	13-03-2002
			EP	1314256	A2	28-05-2003
			JP	2004507967	T	11-03-2004
			TW	519792	В	01-02-2003
			WO	0219551	A2	07-03-2002
			US	2004100328	A1	27-05-2004